CLASSIFICATION RESTRICTED

CLINTRAL INTELLIGENCE AGENCY
INFORMATICKE TRACTED
FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT CD NO

COUNTRY

USSR

DATE OF CONTRACTOR OF STREET

INFORMATION 1948

DATE DIST. 19 Oct 1948

**SUBJECT** 

Technical Terminology

HOW

PUBLISHED Monthly periodical

WHERE

PUBLISHED USSR

NO. OF PAGES

DATE

PUBLISHED February 1948

SUPPLEMENT TO

LANGUAGE Russian

THIS OCCUMENT CONTAINS REPORTSTON AFFECTIVE THE GATHOLAL PEFFERS OF THE UNIVED STREET STREET THE EXAMEN OF DEPORTSON CASE OF THE UNIVED STREET STREET THE EXAMEN OF DEPORTSON CONTAINED THE CONTRACT AND AMPLIED ON THE CONTRACT AND AMPLIED ON A UNAUTHORISED PRODUCTION OF THE CONTRACT AND AMPLIED ON THE FORE STREET, AND AMPLIED ON THE FORE STREET, UNLIVERS AND OTHERS BATCHMANN IN THE GREAT WAS ASSETT.

THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELLIGENCE ANALYSTS

SOURCE |DENTIFICATION vestmik Inchemerov i Teknnikov, No 2, 1948. (FDB Per Abs

#### GREATER CLARITY IN RUSSIAN TECHNICAL LANGUAGE

G. I. Kononenko

Russian scientific and technical terminology is one of the basic factors in Soviet culture, but unfortunately it is also one which is the least developed. The greatest fault is that Soviet terminology has adapted many foreign words which now do not fit the rapidly expanding field of Soviet science.

For example let us take the terms "American maileable iron" and "European malleable iron." Actually there is nothing "American" or "Western European" about this iron. The Soviit Union is the home of the most efficient method for the production of this iron. Why would it not be better therefore to term such iron as "graphitized malleable iron" (ferrite) or "decarbonized malleable iron" (perlite). In addition there are the terms "American ammaling" or "European ammaling." All that these terms attempt to express is either "annoaling in a neutral medium" or "emmaling in an acid medium."

In agricultural literature reference is still being made to either "American" or "European" threshers, seeders, plows, etc. This permits the reader to arew the wrong conclusions, for he will assume that the American and Western European nations apparently have leadership in these fields. Actually, the greater rajority of agricultural equipment now in use in the Soviet Union is made at home.

Soviet authors are too prope to accept firm and family names which they find in foreign catalogues. In addition, many of the so-called family-name phenomena are erroneously named. For example D. E. Chernov determined the presence of erresp on the surface of deformed objects in 1870. Yet this phenomenon is known as "inder's lines" in honor of a Comman coientist who discovered their existance in 1890. As another example, in 1831 Pavel P. Ancerv described the microstructure of steel. Yet, to this day, the structure of present-day steel is known as "scribto" after Sorb, the Englishman who published a work on this subject in 1863. Similar examples are lagion.

CLASSIFICATION RESTRICTED

STATE X NAVY X NSKB DISTRIBUTION

ARMY X AR X RDB X RFSTRICTED

d e

Sanitized Copy Approved for Release 2011/06/29 : CIA-RDP80-00809A000600200335-9

STAT

STAT

RESTRICTED

### RESTRICTED

Criticism is directed to such works as "Construction and Dynamics of an Express Automobile" by V. V. Belman, and "Automobile Clutches and Transmission Boxes" by P. M. Khel'dt. Belman, with true sympathy for the bourgeoin nomenclature, has replaced all true Russian words with foreign terms.

For example, he employs French engineering terms: "demarrage" instead of "zunos" (skid or slip), "deparage" instead of "razgon" (acceleration), and the word "liner" instead of "vtulka" (bushing). Khel'dt, another writer of technical literature, who shows no pride for the Russian language in his work, talks about such phenomena as "pitting," "pitch," "scoring," etc.

In addition, various equipment is known by its firm name, such as the Blake blocking equipment, GM and White transmission boxes, etc. It would be much more advantageous for the Soviet reader to have equipment named according to its structural characteristic erather than by firm names. Thus, it would be possible to murture the national roots of our language and to achieve greater precision when describing various equipment.

For example, the well-known process of centrifugal casting in a sand mould is known as "Murvui's method" or the "sandspoon method." Both of these are tainted foreign expressions. It would be much more nationalistic and more to the point to call the process "the method for centrifugal casting with sand moulds."

In each field of technology the majority of foreign-tainted terms can be replaced with simple and clear Russian terms. Some of the suggestions published by MashGiz for metal working follow:

## A. Terms From Which Foreign (Femily) Names Can Bc Cmitted

1. Pfauter's method of milling gears autofrezerovaniyo (gear milling)

2. Fellows method of milling gears zubofolblaniye (gear slotting)

3. Mang's method of milling gears cargamiye subov (gear planing), or subostrogamiye (gear shaping)

4. Pfauter's machine tool zubofrezernyy stanck (gear miller)

5. Fellow's machine tool subodolbezhnyy stanok (gear slotter)

. Johnneon's gauge (flat-parellel) kontsovyye mery (terminal gauge)

. Hook's joint universal 'nyy sharnir (universal joint) or universal 'nyy sharnir (universal joint) or universal 'nyy sharnir (universal joint) or universal joint).

#### B. Zerms Which Can Be Completely Replaced

1. Hypermilling vysokcakcrostnoye frezerovaniye (high-speed milling)

2. Bernishevat' (burnish) polirovat' (polish) or uplotayat' poverkhnost' (tighten tao surfece)

3. Light fgra (play) or chresmerny reson (excessive clearonce)

4. Shlits prorez' v golovke vinta, etc.,(alotting the heads of screws) or shumka na valu or vo vtulke .glotting spinile: or slotting bushings)

5. Lapping pritirica (lapping)

6. Axial obevoy (axial)

RESTRICTED

# RESTRICTED

RESTRICTED

**STAT** 

7. Extrading

vydevliveniye (stemping)

8. Step-by-step drilling

stupenchatoys sverleniye (stage drilling) or sverleniye a periodicheakim vyvodom sverla (drilling with periodic withdrawal of the drill)

9. Pretsizionnyy (precision)

vysoko tochnyy (high precision)

10. Demping

gasit' (quench) or zaglushat' (smother or damp)

11. Tsanfa (zanfer, German)

sheyka ship (collar pin)

12. Galtobaniye

ochistka or polirovka v barabane (cleaning or polishing in drums)

13. Hagartovka

naklep (riveting)

Experience has shown that the problem of clarifying the scientific and technical language is a problem for scientists, technicisms, philologists, as well as those interested in politics.

This struggle is directed mainly against those foreign words which do not satisfactorily describe a piece of equipment or some technological process. For example, it is not suggested that words like thermometer, Roentgen ruys, emperemeter, microscope, etc., be changed for these words are universal.

The Committee for Technical Terminology, Academy of Sciences USSR, has already done much valueble work in this field. However, this is a problem which concerns all, and all are urged to contribute to its solution.

- E N D -

- 3 -

RESTRICTED

RESTRICTED